

FIG. 47A-75

b-actin, rat (r-bACT) C1671 Probe Set (longer) p I s	A1691 Probe Set p a	Cartilage-derived morphogenic protein 1, human (h-CDMP1) A831 Probe Set p I	T3192 Probe Set p i	G537 Probe Set p i	C2667 Probe Set p i	C1521 Probe Set p i
FRET/TARGET SET 6 5'-CCGTCACGCCTCGCCTTAGGGTTCA-NH2-3' 5'-TCTGGGTCATCTTTTCACGGTTGA-3' 3'-GCGGAGCGGAATCCCAAGT-5' 5'-GAGGGGCCTCGGTGAGC-3'	FRET/TARGET SET 5 5'-CCGCCGAGATCACTGAAGAGGATGCTGATGG-(biotin)-3' 5'-ACACCACGTTGTTGGCAGAGTCAAG-3' 5'-CCATCAGCATCCTCTTCAGTGATCTCGG-(biotin)-3'	FRET/TARGET SET 6 5'-CCGTCACGCCTCCTGTTGCCTCCC-(biotin)-3' 5'-AGCCTCCAACTTCACGCTGT-3' 5'-GGGAGGCAACAGGAGGCG-(biotin)-3'	FRET/TARGET SET 2 5'-CTCTCGTCTCAACTGTGTGGGC-NH2-3' 5'-TTAAGATCTGTAGTCTTTCCGAAC-3' 3'NH2-AGCAGAGTTCACACACCCG-5'	FRET/TARGET SET 2 5'-CTCTCGTCGTCCTCTGGTGGATATGTTTG-NH2-3' 5'-CTAAGTTTTCAGGGATGGATGGTTCATGC-3' 3'NH2- AGCAGAGGAGCCACCTATACAAAC -5'	FRET/TARGET SET 2 5'-CTCTCGTCTCGTTGTATTCTTTAAGCCAG-NH2-3' 5'-CGGTCCAGGTCATCCCCAGAC-3' 3'NH2-AGCAGAGCAACATAAGAAATTCGGTC-5'	FRET/TARGET SET 2 5'-CTCTCGTCGTCGGGAGGGTAATAATAAGG-NH2-3' 5'-GCTGCCTTTTCAATAATCTTATCGAAC-3' 3'NH2- AGCAGAGCCCTCCCATTATTATTCC -5'
2468 2469 2470 2471	2465 2466 2467	. 2462 2463 2464	2459 2460 2461	2456 2457 2458	2453 2454 2455	2450 2451 2452

A1221 Probe Set p p s	Neutral Carboxy Ester Hydrolase, human (h-NCEH) A1221 Probe Set p p s	Nitric Oxide Synthase 2A, human (h-iNOS2) A3418 Probe Set p I	A790 Probe Set	G1288 Probe Set p I	Bile Salt port Pump, rat (r-BSEP) p p i
FRET/TARGET SET 6 5'-CCGTCACGCCTCTCTTCTTATTCTCC-3' 5'-CCGTCACGCCTCTCTTCTTATTCTCC-NH2-3' 5'-CCGTCACACGTCCACCACAGTCTC-3' 5'-GTCTCAAAGTCCACCACAGTCTC-3' 3'-GCGGAGAGAAGAATAAGAGG-5' 5'-TGGGATGGGTCCTGGGC-3'	FRET/TARGET SET 7 5'-AACGAGGCGCACTCTTCTTATTCTCCTG-B-3' 5'-AACGAGGCGCACTCTTCTTATTCTCCTG-NH2-3' 5'-GTCTCAAAGTCCACACAGTCTC-3' 5'-CAGGAGAATAAGAAGAGTGCGC-(biotin)-3'	FRET/TARGET SET 6 5'-CCGTCACGCCTCTGTCTTTCTTCGC-(biotin)-3' 5'-GCTGCACCGCCACCCC-3' 5'-GCGAAGAAAGACAGAGGCG-(biotin)-3'	FRET/TARGET SET 6 5'-CCGTCACGCCTCTTTCCTCATTCTCCT-(biotin)-3' 5'-CCCAATTTCCATTCTATTCTCCGGAAGTAAATC-3' 5'-AGGAGAATGAGGAAAGAGGCG-(biotin)-3'	FRET/TARGET SET 2 5'-CTCTCTCGTCTCCCAGAAGGCCAGT-(biotin)-3' 5'-TTCTTCATCTAGGACAAGTGTGGAACCATAA-3' 5'-ACTGGCCTTCTGGGAGACG-(biotin)-3'	FIG. 47A-76 FRET/TARGET SET 5 5'-CCGCCGAGATCACGAGTTCTTGCCTTTC-(biotin)-3' 5'-CCGCCGAGATCACGAGTTCTTGCCTTTC-NH3-3' 5'-TTCACACACGCTTTTCCTGGTATCTCC-3' 3'-(biotin)-CTAGTGCTCAAGAACGGAAAG-5'
2489 2490 2491 2492 2493	2485 2486 2487 2488	2482 2483 2484	2479 2480 2481	2476 2477 2478	2472 2473 2474 2475

FIG. 47A-77

ω ω· · · · · · · · · · · · · · · · ·	6C. Design for new INVADER assay with 50% 2'-Me.		Peroxisomal Proliferation Activator Protein Receptor beta, human (h-PPAR) A595 Probe set 6B. Designed truncated probe and stackers to reduce temperature	C 1311 Probe Set p i	A1044 Probe Set p i	Peroxisomal Proliferation Activator Protein Receptor alpha, human (h-PPAR_) G1480 Probe Set FRET/TAR 5'-CCGTC I 5'-CGGGT 6'-AGACG	C1309. Probe Set p i
5'-CCGTCACGCCTCTCTTCTGAATCTTG-NH2-3' 5'-CTGGCACTTGTTGCGGTTCTA-3' 3'-NH2-GCGGAGAGACTTAGAAC-5' 5'-CAGCTGCGCTCACACTTCTCGT-NH2-3'	FRET/TARGET SET 6	5'-CCGTCACGCCTCTCTTCTGAATCTTGC-3' 5'-CTGGCACTTGTTGCGGTTCTA-3' 3'-NH2-GCGGAGAGAAGACTTAGAACG-5' 5'-AGCTGCGCTCACACTTCTCGT-3'	י (h-PPAR_) FRET/TARGET SET 6 re	FRET/TARGET SET 6 5'-CCGCCGAGATCACGTGTCCTACGTTTAGAAG-(biotin)-3' 5'-CACATGTACAATACCCTCCTGCATTTTTTCAATC-3' 5'-CTTCTAAACGTAGGACACGTGATCTCGG-(biotin)-3'	FRET/TARGET SET 6 5'-CCGTCACGCCTCTGTCACTTGATCGTTCT-(biotin)-3' 5'-TGGCCTCATAAACTCCGTATTTTAGCAAG-3' 5'-AGAACGATCAAGTGACAGAGGCG-(biotin)-3'	an (h-PPAR_) FRET/TARGET SET 6 5'-CCGTCACGCCTCCCGACTCCGTCT-(biotin)-3' 5'-CGGGTGCAGCGCAGCATT-3' 5'-AGACGGAGTCGGGAGGCG-(biotin)-3'	FRET/TARGET SET 8 5'-GAACGGCAGGTTTGGCACTCTTGGCATT-NH2-3' 5'-CAGGTAGGCGTAGGTCTTGA-3' 3'-NH2-CGTCCAAACCGTGAGAACCGTAA-5' 5'-GGCTCTGTGCTGGGCTA-NH2-3'
2511 2512 2513 2514		2507 2508 2509 2510		250 4 2505 2506	2501 2502 2503	2498 2499 2500	2494 2495 2496 2496

FIG. 47A-78

Hepatic Lipase, human (h-LIPC) A830 Probe Set p I a a	C752 Probe Set p i a a s	A396 Probe Set P a s	Substance P, rat (r-SubP) C344 Probe Set p I	C891 Probe Set p a a s	6D. Truncate probe. p i
FRET/TARGET SET 7 5'-AACGAGGCGCACTCTAGGAAGTGGCA-NH2-3' 5'-GTGCTGGGCAATATGTCTGTAGAGCG-3' 3'-NH2-CGCGTGAGATCCTTCACCGT-5' 5'-GCCAGGCTGGAAGGAGC-NH2-3'	FRET/TARGET SET 7 5'-AACGAGGCGCACGCTGGCAAACTTGT-NH2-3' 5'-CCTTTCTGTCTTTGGAGACTTGCATCA-3' 3'-NH2-CGCGTGCGACCGTTTGAACA-5' 5'-ACAACTCCATCAACACTGTGCTTTGCTG-NH2-3'	FRET/TARGET SET 6 5'-CCGTCACGCCTCTTTATGCCTTTTGTGA-NH2-3' 5'-TGCCCATTAGTCCAACAAAGGAATCTGTA-3' 3'-GCGGAGAATACCGGAAAACACT-5' 5'-GAGATCTGACCATGCCCATAAAAGAGCC-NH2-3'	FRET/TARGET SET 6 5'-CCGTCACGCCTCGCCACTTGTTTTTCA-NH2-3' 5'-CCATGCCCATAAAGAGCCTTTAACAGGA-3' 3'-NH2- GCGGAGCCGTGAACAAAAAGT -5' NO STACKER	FRET/TARGET SET 7 5'-AACGAGGCGCACGGTAGGCATTGTAGA-3' 5'-CCTTCTTTTTGGTCATGTTGAAGTTTTTCAC-3' 3'-CGCGTGCCATCCGTAACATCT-5' 5'-TGTGCTTGGAGAAGGCCTTCA-3'	FRET/TARGET SET 6 5'-CCGTCACGCCTCTCTTCTGAATCTT-NH2-3' 5'-CCTGGCACTTGTTGCGGTTCTA-3' 5'-GCAGCTGCGCTCACACTTCTCGT-NH2-3'
2533 2534 2535 2536	2529 2530 2531 2532	2525 2526 2527 2528	2522 2523 2524	2518 2519 2520 2521	2515 2516 2517

C1154 Probe Set

FRET/TARGET SET 5

			•	•		
C363 Probe Set	i kappa b alpha, human (h-MAD3) C542 Probe Set P I	G-protein coupled receptor 2, rat (r-ETBR-LP2) A1629 Probe set p I s	Metabotropic Glutamate Receptor 2, rat (r-mGluR2) C1403 Probe Set p I a	C1167 Probe Set p i	Hepatic Lipase, rat (r-LIPC) G357 Probe Set p i	g g
FRET/TARGET SET 6	FRET/TARGET SET 7 5'-AACGAGGCGCACGGTGTAGGGGGG-(biotin)-3' 5'-GCCCTGCTCACAGGCAAT-3' 5'-CCCCCCTACACCGTGCGC-(biotin)-3'	FRET/TARGET SET 8 5'-GAACGGCAGGTTTGTCAGCAGACCGC-NH2-3' 5'-GAGAGGCCAAAGTGAGACCATGTGAAAGAAA-3' 3'-NH2-CGTCCAAACAGTCGTCTGGCG-5' 5'-CATGGATCGGCATGGCCCC-NH2-3'	FRET/TARGET SET 7 5'-AACGAGGCGCACGGTGGTGTTGGGA-NH2-3' 5'-GCCTCATAGCATCGCAGAGGTGT-3' 3'-NH2-CGCGTGCCACCACAACCCT-5' 5'-CAGAGGGCACGGTGCATGTTOT-NH2-3'	FRET/TARGET SET 8 5'-GAACGGCAGGTTTGGGGAATTTTCTTTATTTCTT-NH2-3' 5'-ATTCCTTCGCCCAGGGTGATG-3' 3'-NH2-GTCCAAACCCCTTAAAAGAAATAAAGAA-5' 5'-CTTTTGTCCCCAGCAGTGT-NH2-3'	FRET/TARGET SET 5 5'-CCGCCGAGATCACCACGTTCACGGGTT-NH2-3' 5'-GGGAGATCCAGTCCACTAATCCA-3' 3'-NH2-TCTAGTGGTGCAAGTGCCCAA-5' 5'-GGGACTGTCGGGACTTCAGG-NH2-3'	FIG. $47A$ – 79 s-cogcogagatcaccgtctcagtttggt.nh2-3 s-cgagtagtgacatggtaaaagttgttttgtattggct-3 s-nh2-ctctagtggcagagtcaaacca-s
,	2556 2557 2558	2552 2553 2554 2555	2548 2549 2550 2551	2544 2545 2546 2547	2540 2541 2542 2543	2537 2538 2539

Apolipoprotein A-1, human (h-ApoA1) A177 Probe Set p I	C1217 Probe Design p ! a	C827 Probe Design p l	Lecithin cholesterol acyltransferase, human (h-LCAT) C821 Probe Set (truncated Probe Design) p l s	C923 Probe Set P A S	G953 Probe Set P I A	> - ₽
FRET/TARGET SET 6 5'-CCGTCACGCCTCTGAGCACATCCACG-NH2-3' 5'-ACATAGTCTCTGCCGCTGTCTTA-3' 3'-NH2-GCGGAGACTCGTGTAGGTGC-5' 5'-TACACAGTGGCCAGGTCCTT-NH2-3'	FRET/TARGET SET 5 5'-CCGCCGAGATCACGAGATGCTGTATCCC-NH2-3' 5'-GGTCAGGTTGCTGAAGACCATGTTG-3' 3'-NH2- TCTAGTGCTCTACGACATAGGG -5'	FRET/TARGET SET 8 5'-GAACGGCAGGTTTGGGTGGTGGTTATGCG-NH2-3' 5'-AGAGGGAAACATCCAGGGGGAG-3' 3'-NH2-CGTCCAAACCCACCAATACGC-5'	FRET/TARGET SET 5 5'-CCGCCGAGATCACGGTTATGCGCTG-NH2-3' 5'-CCAGGGGGAGGTGGTC-3' 3'-NH2-TCTAGTGCCAATACGCGACG-5' 5'-CTCCTCTTTCAGCTTGATGCTGG-NH2-3'	FRÉT/TARGET SET 7 5'-AACGAGGCGCACGGTTTTCTAGTGTCA-NH2-3' 5'-CTCACTCTCTGGCAGCATCTGAAT-3' 3'-NH2-CGCGTGCCAAAAGATCACAGT-5' 5'-GCTGGCCCAGCTGC-NH2-3'	FRET/TARGET SET 6 5'-CCGTCACGCCTCCCTCATCCTCACT-(biotin)-3' 5'-ACTCTGACTCTGTCATAGCTCTT 5'-AGTGAGGATGAGGGGAGGCG-(biotin)-3'	FIG. 47A-80 5'-CCGTCACGCCTCGTCAGTGCCTTTTTC-(biotin)-3' 5'-CACCTGGCGGATCACTTCCATGT 5'-GAAAAGGCACTGACGAGGCG-(biotin)-3'
2579 2580 2581 2582	2576 2577 2578	2573 2574 2575	2569 2570 2571 2572	2565 2566 2567 2568	2562 2563 2564	2559 2560 2561

G119 Probe Set p i	Ubiquitin, human (h-UBIQ) G119 Probe Set (MO4 Arm) p I	Metabotropic Glutamate Receptor 1, rat (r-mGluR1) T934 Probe Set p I s	G233 Probe Set	G350 Probe Set p I a a s	A227 Probe Set (titrate length of 2'-O-Me in Invader) p i i i
FRET/TARGET SET 5 5'-CGCCGAGATCACCTTTACATTTTCTATCGTATCCG-(biotin)-3' 5'-CCTTCCTTATCCTGGATCTTGGCA-3' 3'-(biotin)-CTAGTGGAAATGTAAAAAGATAGCATAGGC-5'	FRET/TARGET SET 6 5'-CCGTCACGCCTCCTTTACATTTTCTATCGTATCCG-(biotin)-3' 5'-CCTTCCTTATCCTGGATCTTGGCA-3' 3'-(biotin)-GCGGAGGAAATGTAAAAAGATAGCATAGGC-5'	FRET/TARGET SET 11 5'-AGAACGGCAGTCTTTAGAATAGGCGATCTGT-NH2-3' 5'-CACTCAGGTCTATGCTTGTGGCT-3' 3'-NH2-GTCAGAATCTTATCCGCTAGACA-5' 5'-GGGATGTCGAACAGCTGGAGAAGATTCT-NH2-3'	FRET/TARGET SET 11 5'-AGAACGGCAGTCTTTCTGTTTTCCCAAGG-NH2-3' 5'-CCAGTTGTCAAGGAGCTTTAGGTTTAGT-3' 3'-NH2-CGTCAGAAAGACAAAAGGGTTTCC-5' 5'-CGGAGCCTTCAAACTGGGACACATAGT-NH2-3'	FRET/TARGET SET 5 5'-CCGCCGAGATCACTTCTGTCTCCTT-NH2-3' 5'-CTCCTGCCTCAGGCCG-3' 3'-NH2-TCTAGTGGAGACAGAGGAA-5' 5'-TTCCAGGTTATCCCAGAACTCC-NH2-3'	FIG. 47A-81 FRET/TARGET SET 8 5'-GAACGGCAGGTTTGTCCCAAGGCGG-NH2-3' 5'-GTCAAGGAGCTTTAGGTTTAGCTGTTTA-3' 5'-GTCCAAGGATCTTTAGGTTTAGCTGTTTA-3' 5'-GTCCCAGTTGTCAAGGATCTTTAGGTTTAGCTGTTTA-3' 5'-H2-GTCCAAACAGGGTTCCGCC-5' 5'-AGCCTTCAAACTGGGACACATAGTCTC-NH2-3'
2604 2605 2606	2601 2602 2603	2597 2598 2599 2600	2593 2594 2595 2596	2589 2590 2591 2592	2583 2584 2585 2586 2587 2588

G294 Probe Set p I	G294 Probe Set p I	Ubiquitin, mouse (m-UBIQ) G294 Probe Set P I	G131 Probe Set p 1 3 Scanned G119 region (ELISA format (No Arrestors)) p p p p p p p p p p p p p p p p p p	
FRET/TARGET SET 6 5'-CCGTCACGCCTCCCTTCTGGATGTTGTAAT-NH2-3' 5'-CCAGGTGCAGGGTTGACTA-3' 3'-NH2-GCGGAGGGAAGACCTACAACATTA-5'	FRET/TARGET SET 5 5'-CGCCGAGATCACCCTTCTGGATGTTGTA-(biotin)-3' 5'-CCAGGTGCAGGGTTGACTA-3' 3'-(biotin)-CTAGTGGGAAGACCTACAACAT-5'	FRET/TARGET SET 7 5'-CCGTCACGCCTCCCCTTCTGGATGTTGTA-(biotin)-3' 5'-CCAGGTGCAGGGTTGACTA-3' 3'-(biotin)-GCGGAGGGAAGACCTACAACAT-5'	FRET/TARGET SET 9 5'-CATCITCGCGGACTGGATCCTTGGCC-(biotin)-3' 5'-GCTGATCAGGAGGAATTCCTTCCTTATCT-3' 3'-(biotin)-GCCTGACCTAGAACCGG-5' 5'-CTCTCTCGTCTCTTTACATTTTCTATCGTATCCG-NH2-3' 5'-CTCTCTCGTCTCCTTTACATTTTCTATCGTATCCG-NH2-3' 5'-CTCTCTCGTCTCCCTTTACATTTTCTATCGTATCCG-NH2-3' 5'-CTCTCTCGTCTCCCTTTACATTTTCTATCGTATCG-NH2-3' 5'-CTCTCTCGTCTCCCTTTACATTTTCTATCGTATCG-NH2-3' 5'-CTCTCTCGTCTCCCTTATCCTGATCTTGG-3' 5'-GGAATTCCTTCCTTATCCTGGATCTTGGC-3' 5'-TCCTTATCCTGGATCTTGGCCA-3' 5'-TCCTTATCCTGGATCTTGGCCA-3'	FIG. 47A-82
2626 2627 2628	2623 2624 2625	2620 2621 2622	2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2616 2618 2619	

2639 2640	3'-NH2-GCGCCTGAAGTGCAAGAGCTACC-5'	<u>u</u>
2638	FRET/TARGET SET 9 5'-CATCTTCACGACGTTCTCGATGG-NH2-3' 5'-CCCTCTTTATCCTCCATCTCCCATGG-NH2-3'	G185 Probe Set
2635 2636 2637	FRET/TARGET SET 9 5'-CATCTTCGCGACCTTCTGGATGTTGTA-NH2-3' 5'-GGACCAGGTGCAGGGTTGACTT-3' 3'-NH2-GCCTGGAAGACCTACAACAT-5'	G750 Probe Set
2632 2633 2634	FRET/TARGET SET 7 5'-AACGAGGCGCACATGTTGTAATCAGAGAGGG-NH2-3' 5'-TGCAGGGTTGACTCTTTCTGGA-3' 3'-NH2-CGCGTGTACAACATTAGTCTCTCCC-5'	T514 Probe Set
2629 2630 2631	FRET/TARGET SET 6 5'-CCGTCACGCCTCCCTTCTGGATGTTGTAATC-NH2-3' 5'-CCAGGTGCAGGGTTGACTA-3' 3'-NH2- GCGGAGGGAAGACCTACAACATTAG -3'	G294 Probe Set p i a
	FIG. 47A-83	